

CLAIMS

1. A packaging machine that overlaps both longitudinal edges of a single packaging sheet, having a strip shape, or opposing longitudinal edges of two packaging sheets, each having a strip shape, seals the overlapped portions of the packaging sheet or sheets to shape the packaging sheet or sheets into a cylindrical shape, then seals a lower end of a pre-packaging body in the middle of manufacturing a packaging, then loads a predetermined amount of contents into the pre-packaging body, then after sealing an upper end of the pre-packaging body, cuts the sealed portion at the upper end of the pre-packaging body, and discharges the packaging thus obtained out of the machine by means of a packaging discharging unit,

the packaging discharging unit being incorporated inside the packaging machine, and

the packaging discharging unit being provided with a means for weighing the packaging that is manufactured.

2. The packaging machine according to Claim 1, wherein the weighing means comprises:

a weighing bucket, receiving the packaging; and

a weighing load cell, being disposed on the weighing bucket and measuring the weight of the packaging.

3. The packaging machine according to Claim 2, wherein the packaging discharging unit comprises a housing, and

in the housing are housed

the weighing means,

a discharging chute, being disposed at a portion of the packaging discharging unit downstream the weighing means and

discharging the packaging out of the machine,

a defective item removing means, being disposed on the discharging chute and removing defective packagings judged by weighing to be outside a weight range of non-defective items, and

a non-defective item counter, being disposed at an end portion of the discharging chute at the side at which the packagings that are non-defective are discharged and counting the number of non-defective packagings that have passed through the discharging chute, and

in the defective item removing means are disposed an opening/closing lid, opening and closing a defective item outlet, formed in a portion of the discharging chute, by being rotated within a vertical plane, and a lid rotating means, rotating the opening/closing lid within the vertical plane.

4. A weighing machine comprising:

a housing;

a conveying passage, being housed in the housing and conveying an object to be weighed from an inlet to an outlet that are formed apart from each other in the housing; and

a weighing means, disposed on the conveying passage;
the weighing means in turn comprising:

a weighing bucket, receiving the object to be weighed; and

a weighing load cell, being connected to the weighing bucket and measuring the weight of the object to be weighed.

5. The weighing machine according to Claim 4, wherein in the housing are housed

a discharging chute, being disposed at a portion of the conveying passage downstream the weighing bucket and discharging

the weighed object to the exterior of the machine,

a defective item removing means, being disposed on the discharging chute and removing defective weighed objects that are judged by weighing to be outside a weight range of non-defective items, and

a non-defective item counter, being disposed at an end portion of the discharging chute at the side at which the weighed objects that are non-defective are discharged and counting the number of non-defective weighed objects that have passed through the discharging chute, and

in the defective item removing means are disposed an opening/closing lid, opening and closing a defective item outlet, formed in a portion of a bottom plate of the discharging chute, by being rotated within a vertical plane, and a lid rotating means, rotating the opening/closing lid within the vertical plane.

6. The weighing machine according to Claim 5, wherein a defective item recovery box, containing weighed objects that are defective items, is disposed immediately below the defective item outlet, and

to the opening/closing lid is fixed a discharging guide that contacts each defective weighed object that is discharged from the defective item outlet and guides the defective weighed object into the defective item recovery box.

7. The weighing machine according to Claim 6, further comprising a rotation angle adjusting means that adjusts angles of rotation of the opening/closing lid and the discharging guide by the lid rotating means to change the position of dropping of the defective weighed object.